

IDASHKIN, S. I.

35250. B etonnye Massivy Dlya Sbornykh Konstruktsiy Gidratekhnicheskikh sooruzheniy. Trudy IV Vsesoyuz. Konf-Tsii Po Betono Izhelezobeton. Konstruktsiyam. Ch. I. M.-L., 1949, S. 295-300

SO: Letopis 'Zhurnal 'Nykh State y Vol 34, Maskva, 1949

Kirpichneya Kladka. (Brick Laying)
Moskwa, Gos. 120-vo Ark itektury 1
Gradostroital 'stwa, 1950

73 F. Illus., Diagra.

On advanced experiences in brick laying carried out by outstanding
Stakmandvites. Author analyzes certain methods of brick laying indicating
each of their advantages.

IDASHKIN, S. I.

Hoisting Machinery

Derrick for small building construction, Mekh. stroi., 9, no. 2, 1952.

Monthly List of Russian Accessions, Library of Congress, May 1952. Unclassified.

- 1. TDASHKIN, S. I.
- 2. USSR (600)
- 4. Concrete Testing
- 7. Testing the permeability of concrete. Stroi.prom. 30 no. 12, 1952

9. Monthly List of Russian Accessions, Library of Congress, March 1953, Unclassified.

。 第一一个一个大型,并不是一个大型,就是一个大型,是一个大型,就是一个大型,就是一个大型,就是一个大型,不是一个大型,也可以是一个大型,可以是一个大型,可以是一个大

IDASHKIN, S.I., kandidat tekhnicheskikh nauk.

Mechanical tension of circular reinforcement cables used in building reinforced concrete tanks. Stroi.prom. 32 no.5:5-9 My '54. (MLRA 7:6)

1. VNIIStroyneft'. (Tanke)

GOLOVINTSOV, Mikhail Grigor'yevich; IDASHKIN, S.I., redaktor; BASHKIROV,
L.G., redaktor isdatel'stva; IOSTASHINA, T., tekhnicheskiy redaktor

[Containers for transporting bricks by automobile] Avtokonteiner
dlia pervoski kirpicha. Moskva, Isd-vo Ministerstva Kommunal'nogo
khosiaistva RSFSR, 1956. 30 p.

(Bricks--Transporation)

(Bricks--Transporation)

IDASHKIN, S.I., kandidat tekhnicheskikh nauk.

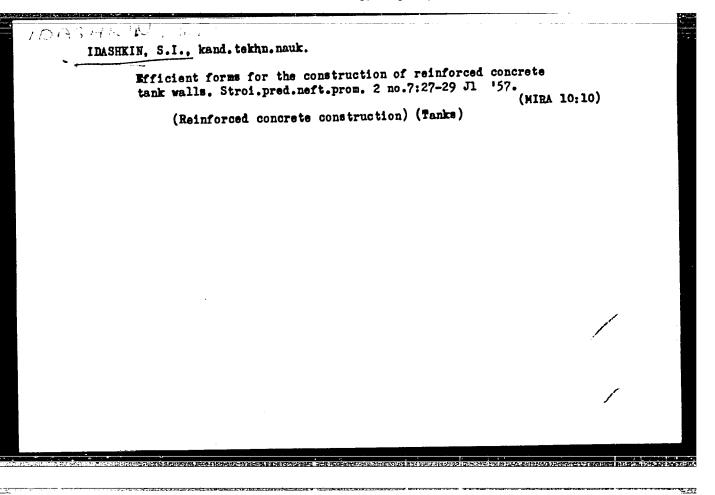
Prestressed reinforcement of reinforced concrete tank bottoms.

Stroi.pred.neft.prom. 1 no.8:28-29 0 '56. (MURA 9:12)

(Prestressed concrete) (Tanks)

IDASHKIN, S.I., kandidat tekhnicheskikh mauk, (g. Meskva); SAFARYAH, M.K., kan-uldat tekhnicheskikh mauk, (g. Meskva); TUPIKOV, A.N., inzhemer (g. Heskva).

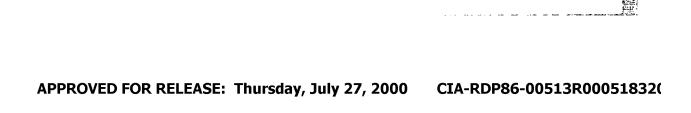
> Generate building elements reinforced with prestressed concrete reds. Strei. pred. meft. prem. 2 me.3:18-20 Mr 157.
> (Reinferced concrete construction)



Methods for eliminating leaks in reiforced concrete water tanks.

Stroi. pred. neft. prom. 2 no.12:29-30 D '57. (MIRA 11:3)

(Tanks) (Reinforced concrete)



TOURSHIP, S.I., kand.tekhn.nauk; KAMERSHTEYN, A.G., kand.tekhn.nauk;

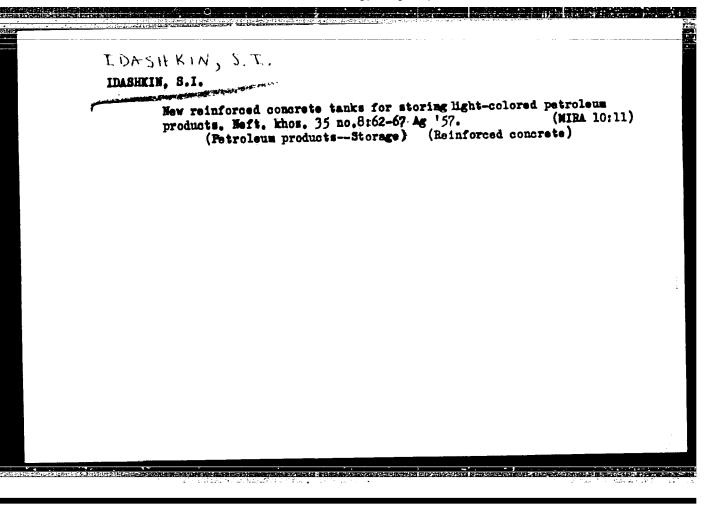
SAPARYAN, M.E., kand.tekhn.nauk.

Composite reinforced concrete structural components. Stroi.prom.
35 no.6:16-18 Je '57. (MIRA 10:10)

(Reinforced concrete)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000518320

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IDASHKIN, S.I., kand.tekhn.nauk; SAFARYAN, M.K., kand.tekhn.nauk; KARANYSHEV, I.A., insh., nauchnyy red.; GORYACHEVA, T.V., red.izd-va; PRUSAKOVA, T.A., tekhn.red.

[Reinforced concrete reservoirs and tanks for water and petroleum products; design and construction practices abroad] Zhelezo-betonnye reservuary dlia vody i nefteproduktov; sarubeshnyi opyt proektirovaniia i stroitel'stva. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1958. 178 p. (MIRA 12:3) (Precast concrete construction) (Tanks) (Reservoirs)

JDASHKIN S.I.

AUTHOR:

Idashkin, S. I., and Veselov, V. Z.

93-58-3-16/17

TITLE:

Reinforced Concrete Tanks for Underground Gasoline Storage (Zhelezobetonnyy rezervuar dlya podzemogo khraneniya benzina)

PERIODICAL:

Meftyanoye khozyaystvo, 1958, Mr 3, pp 68-72 (USSR)

ABSTRACT:

The article describes experimental work in the development of gasoline-impermeable concrete for underground storage tank construction in the Soviet Union. The All-Union Scientific Research Institute for Construction in the Petroleum and Gas Industry (VNIIstroyneft') and the State Institute for the Design and Planning of Petroleum Industry Establishments in the Eastern Regions (Giprovostokneft') recommended three kinds of gasoline-impermeable concrete from which experimental tanks were constructed. G. P. Chalkin [Ref 2] has published experimental data on a storage tank of durable coarse-grain water-saturated concrete built in the area of Kuybyshev at Morkvasha. V. E. Leyrikha and Engineer S. I. Ratner, published experimental data on a concrete storage tank containing an addition of calcium and sodium chlorides built at the Pavelets tank farm (Pavel'tsovskaya neftebaza) [Ref 3]. Professor D. P. Kozyrev (deceased) suggested that gasoline-impermeable concrete can be produced by including an addition of ferric hydroxide.

Card 1/2

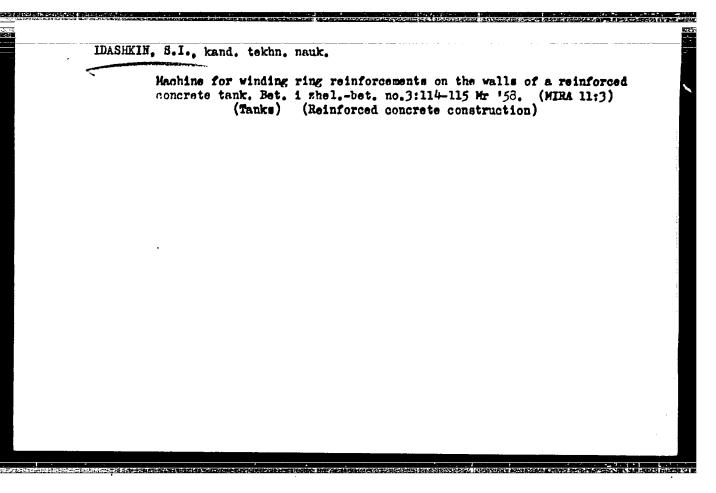
Reinforced Concrete Tanks (Cont.)

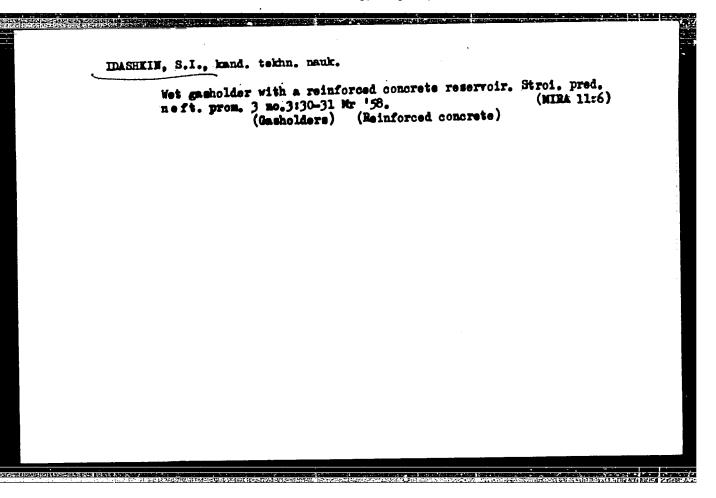
93-58-16/17

V. E. Veselov, E. V. Dubrovskaya, T. A. Meshkova, O. V. Prokof yeva, and R. S. Shets carried out laboratory experiments with this kind of cement and the results are shown in Tables 1-2. Fig. 1 presents the plan and cross section of a storage tank near Moscow built of concrete with a ferric hydroxide addition. Fig. 2 shows a machine designed by Engineer G. Kalenichenko pulling circular reinforcements onto the experimental tank. The completed storage tank was tested under industrial conditions by the All-Union Scientific Research Institute for the Processing of Petroleum and Gas and for the Production of Synthetic Liquid Fuel (VIIIIP) under the direction of N. N. Konstantinov. The tests determined that there was practically no gasoline loss due to evaporation, no gasoline seepage, and no deterioration in gasoline properties. The authors conclude that the laboratory and field results make it possible to recommend the use of ferric hydracide additions in the construction of gesoline-impermental reinforced-concrete storage tanks. Experiments are being conducted in order to determine whether layers of gunite containing ferric hydrocide applied to storage tanks of conventional Portland cement can make the tanks gasoline impermeable. There are 2 figures, 2 tables, and 4 Soviet references.

AVAILABLE: Library of Congress

Card 2/2

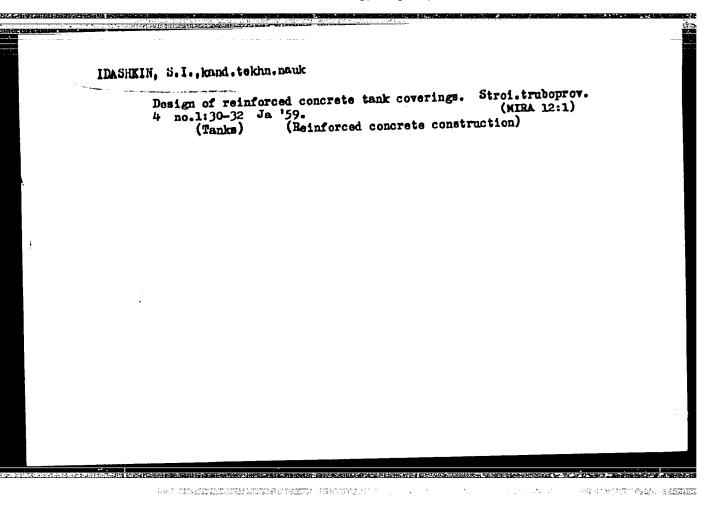




IDASHKIN, S.I., kand. tekhn. nauk

Flexible joint sealing of reinforced concrete tanks. Stroi. truboprov.
3 no.8:31-32 Ag *58. (MIRA 11:11)

(Tanks) (Reinforced concrete construction)



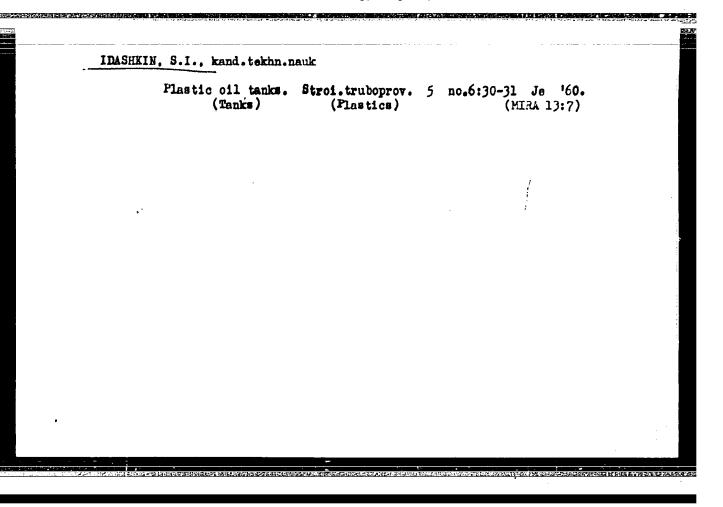
IDASHKIN, S.I., kand. tekhn. nauk; LAMPEKO, S.N., retsenzent [deceased];

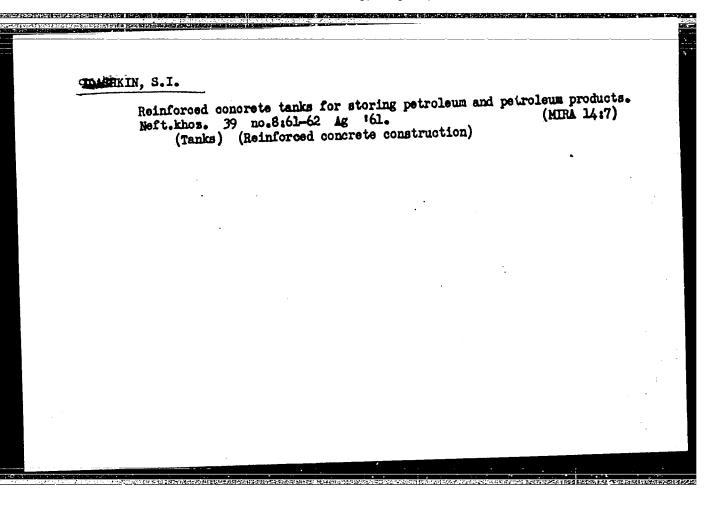
KARAMYSHEV, I.A., nauchnyy red.; KOMAROV, L.S., red.; DEMIDOV,

Ya.F., tekhn. red.

[Precast reinforced-concrete tanks] Sbornye zhelezobetonnye reservasry. Moskva, VNIIST Glavgaza SSSR, redaktsionno-izdatel'akii otdel, 1960. 149 p. (MIRA 14:5)

(Precast concrete construction) . (Tanks)





IDASHKIN, V. I., Eng.

Civil Engineering

Meeting of the All-Union Civil Engineers' Scientific and Technical Society on Cooperation with the great construction projects of communism. Biul. stroi. tekh. 9 No. 18, 1952.

Monthly List of Russian Accessions, Library of Congress, December 1952. Unclassified.

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- 2. USSR (600)
- 4. Locks (Hydraulic Engineering)
- 7. Conference on planning and building navigable hydro developments and canals. Gidr. stroi. 21 no. 9, 152.

9. Monthly List of Russian Accessions, Library of Congress, January 1953, Unclassified.

IDASHKIN, V.I., inshener.

Second All-Union competition for the best plastering machinery. Biul.etroi. tekh. 10 no.3:31-32 F 153. (KLRA 6:12)

1. Vsesoyusnoye nauchnoye inshenerno-tekhnicheskoye obshchestvo stroiteley.
(Plastering)

IDASHKIN, V.I., inshener, uchenyy sekretar¹.

Consultations on the mechanics of soils and foundations. Gidr.stroi. 22 no.5:42-47 Je ¹53.

(MLRA 6:6)

1. Vsesoyuznoye nauchnoye inshenernotekhnicheskoye obshchestvo stroiteley. (Soil mechanics)

IDASHKIN, V.I., inshener, uchenyy sekretar'.

Consultations en technelegical problems ef hydretechnical cencrete.
Gidr.stroi. 22 no.8:44-46 Ag '53. (MLRA 6:8)

1. Vseseyusnoye nauchneye inshenerno-tekhnicheskeye ebshchestve stroiteley.
(Cencrete censtruction)

The Committee on Stalin Prizes (of the Council of Ministers USSR) in the risks of science and inventions announces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Sovetskaya Kultura, Moscov, No. 22-40, 20 Feb - 3 Apr 1954)

Hent

Zhurin, V.D.

Idashkin, V.I.

Shchelkanov, V.I.

Heporozhniy, P.S.

Devnego, Yu. B.

Ivyanskiy, G.B.

Ogurtsov, A.I.

Nikonov, G.P.

Title of Work

"Popular Scientific and Technical Series for Engineering and Technical Workers, and Workers on Large Hydraulic Engineering Constructions"

Momineted by

All-Union Scientific Engineering and Technical Society of Constructors

80: W-30604, 7 July 1954

I.DASHKIN, V. I.

AID P - 533

Subject

: USSR/Engineering

Card 1/1

Pub. 93 - 8/9

Author

Title

: Idashkin, V. I., Engineer

: Report on a conference concerning sectional reinforced concrete construction for industrial building. (All-Union Scientific Society of Engineers and Technicians)

Periodical

: Sbor. mat. o nov. tekh. v stroi., 7, 28-30, 1954

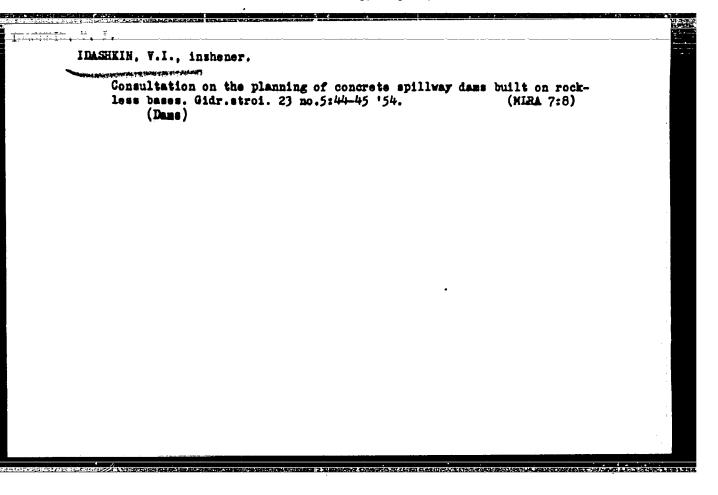
Abstract

: The conference heard several reports on various applications of reinforced concrete prefabricated sections for industrial buildings and structures, and on the methods

used in their production and assembly.

Institution: None

Submitted : No date



IDASHKIN, V.I., inshener.

Consultation on the artificial lowering of the ground water level. Oidr.stroi 23 no.6:44-45 '54. (MIRA 7:9) (Water, Underground)

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IDASHKIN, V.I.

All-Union conference on problems of using welded reinforcement. Gidr. stroi. 23 no.8:44-46 *54. (MLRA 8:1)

1. Mauchnyy sekretar! Vsesoyusnogo nauchno-inshenerno tekhnicheskogo obshohestva stroiteley.

(Reinferced cencrete censtruction)

IDASHKIN, V.I.

On the All-Union Conference on Reinforced and Plain Concrete. Bet. i shel.-bet. no.1:35 Ap 155. (MIRA 8:9)

1. Uchenyy sekretar' Orghomiteta po podgotovke Vsesoyusnoy konferentsii po betonu i shelesobetonu. (Noscow-Conreto construction-Congresses)

AD P - 3214

Subject

: USSR/Hydraulic Engineering

Card 1/1

Pub. 35 - 18/19

Author

: Idashkin, V. I.

Title

: All-Union conference on concrete and reinforced concrete

Periodical : Gidr. stroi., 5, 45-47, 1955

Abstract

: The author reports on the conference held May 30 - June 3, 1955, and enumerates the names of active participants, giving the title of their addresses. Some resolutions made by the members are listed, i.e. a wider use of precast ferro-concrete in hydraulic construction, the standardization of types of precast reinforced concrete parts, further research on new designs for dams, and the use of complex precast parts for navigation locks and spillways.

Institution : None

Submitted : No date

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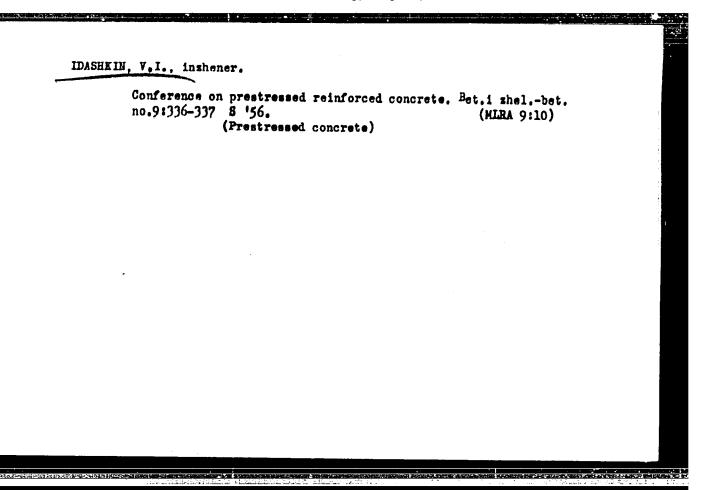
Conference on using welded reinforcements in building. Biul. stroi. tekh. 12 no.1:34-35 Ja '55. (MIRA 11:12)

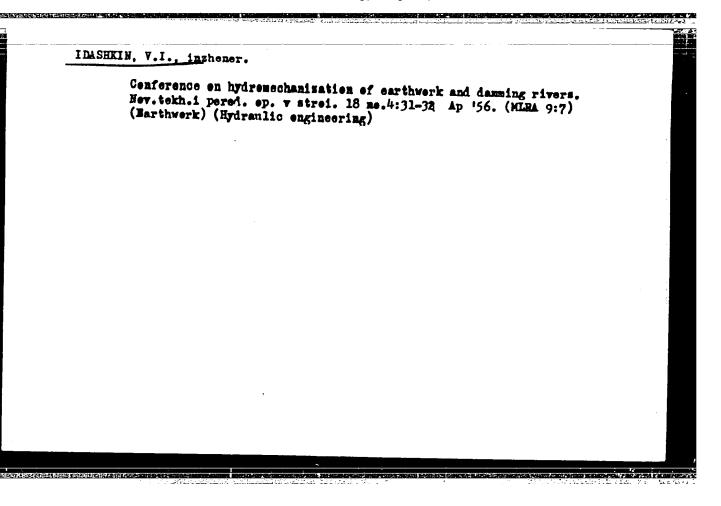
1. Vsesoyusnoye nauchnoye inshenrno-tekhnicheskoye obshchestvo stroiteley.

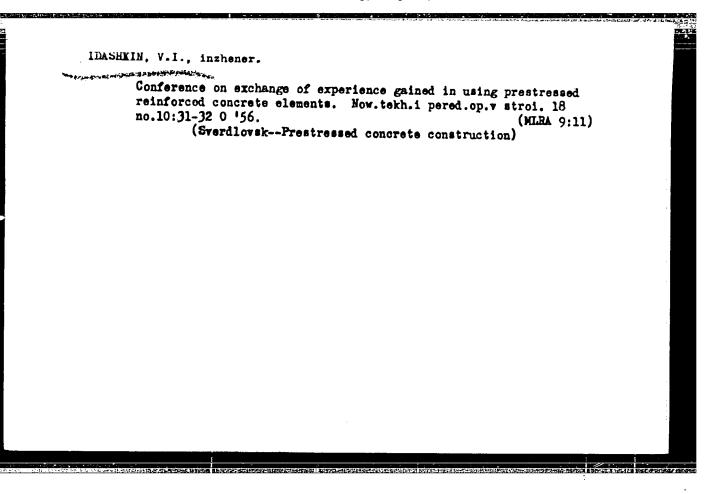
(Reinforced concrete)

IDASHKIN, V.I., inshener.

Cenference en publicising experience in celd weather cencrete werk. Bet.i shel.-bet. ne.1:39-40 Ja 156. (MIRA 9:4) (Mescew--Cencrete censtruction--Celd weather cenditions)







IDASHKIN, V.I., inshener.

Conference on hydraulic methods of earthwork and deaming of rivers. Gidr. etroi. 25 no.2:59-62 '56. (MLRA 9:8)

1. Zamestitel' predsedatelya TSentral'nogo pravleniya nauchno-tekhnicheskoye obshchestvo stroitel'noy promyshlennosti. (Noscow--Hydraulic engineering--Congresses)

IDASHKIN, V., inshener

Discussing new "Directives on building in seismic regions". Gor. i sel'.stroi. ne.1:25 Ja '57. (MIRA 10:4) (Earthquakes and building)

AUTHOR:

Idashkin. V. I. (Engineer).

97-57-9-15/17

TITLE:

All-Union Congress on Large Panel and Large Block Construction (Vsesoyuznoye soveshchaniye po krupnopanel nomu i

krupnoblochnomu stroitel'stvu).

PERIODICAL: Beton 1 Zhelezobeton, 1957, Nr.9. p. 376. (USSR).

ABSTRACT:

The Scientific and Technical Association of the Building Industry of USSR (Nauchno-tekhnicheskoye obshchestvo stroitel noy promyshlennosti SSSR) and the Union of Architects of USSR (Soyuz arkhitektorov SSSR) organized this Congress to generalize experience of large panel and large block methods of residential building, and to further the development of this type of construction in USSR. The Congress was held from 4th - 10th June, 1957 in Chelyabinsk. Six hundred delegates attended, representing building organizations, planning and scientific organizations and factories manufacturing building materials. The Congress was opened by the Secretary of the Chelyabinsk KPSS, N. V. Laptev. A paper on "The Present Position and Future Developments in the Use of Large Panel and Large Block Construction" was read by G. F. Kuznetsov, a member of the Academy of Building and Architecture of USSR (Akademii stroitel stva i arkhitektury SSSR). A paper on

Card 1/3

All-Union Congress on Large Panel and Large Block Construction

"Material Resources for Large Panel and Large Block Construction Methods" was read by A. N. Popov, also a member of
the above Academy, and contributions on this subject were
also made by the following: V. I. Bogomolov (Member of
the Academy of Building and Architecture, USSR), Engineers
P. F. Panfilov, V. M. Kopp and L. S. Raynus (Leningrad),
A. B. Strutinskiy and V. A. Mikhaylov (Kiev), E. D. Samoylovich (Chelyabinsk), A. S. Krivorotov (Magnitogorsk),
Candidate of Technical Sciences I. L. Zhodzishskiy (Sverdlov),
Engineer V. N. Popko (Krasnotur'insk), and V. G. Lelichenko
(Zhdanov). Papers on the results of investigations into
the subject of large panel and large block building methods
were read by:- Member of the Academy of Building and Architecture of USSR L. I. Onishchik, and A. V. Elkin; Doctor
of Technical Sciences Prof. A. E. Desov; Candidates of
Technical Sciences Prof. A. E. Desov; Candidates of
Technical Sciences Prof. A. E. Desov; Candidates of
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Technical Sciences Prof. A. E. Desov; Candidates of
Technical Sciences Prof. A. E.

Card 2/3

97-57-9-15/17
All-Union Congress on Large Panel and Large Block Construction

assembly causes concern. The Congress made a number of recommendations for expansion, improvement in quality and reduction in costs. Lightweight aggregated such as Keramzit and Termozit, etc., are advocated, together with clinker and furnace slag. Highly active, quick-hardening cement should be used. Further investigations should be carried out on aerated concrete. Study and experience of large panel and large block construction shows that it is possible to reduce the assembly time by at least 20 - 30% by using the continuous method of assembly by employing two or three shifts, and by improved methods of assembly. The Academy of Building and Architecture of USSR was approached by the Congress to study types of cranes suitable for this particular assembly work.

AVAILABLE:

Library of Congress.

1. Building industry-Conference

Card 3/3

IDASHKIN, V.I.

Conference on designing and building high dams. Gidr. stroi. 26 no. 4:62-63 Ap '57. (MLRA 10:6)

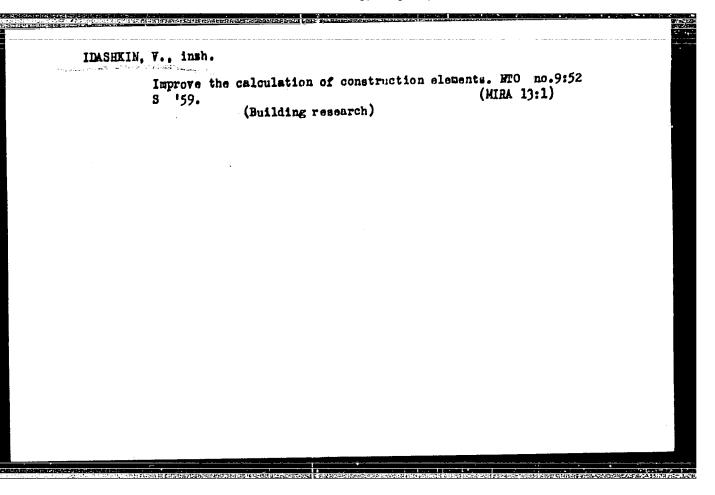
1. Zamestitel' predsedatelya TSentral'nogo pravleniya Mauchnotekhnicheskogo obshchestva stroitel'noy promyshlennosti. (Hydraulic engineering--Congresses) (Dams)

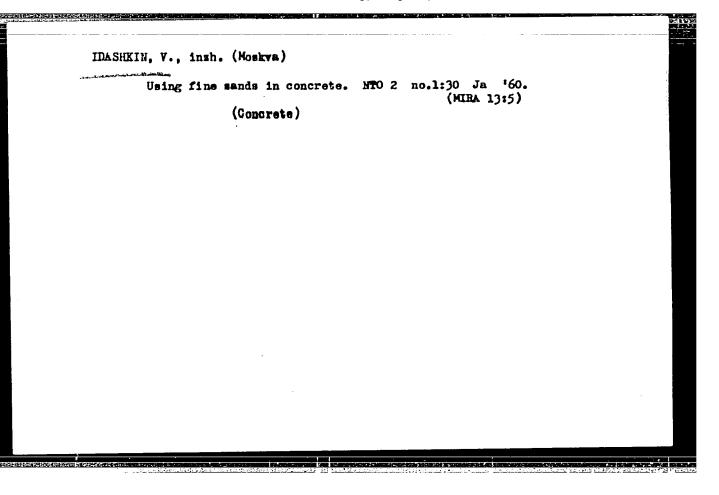
IDASHKIN, V., insh.

Efficient use of natural stone in building. NTO no.3:37-38
(MIRA 12:6)

Hr '59.

(Building stones)





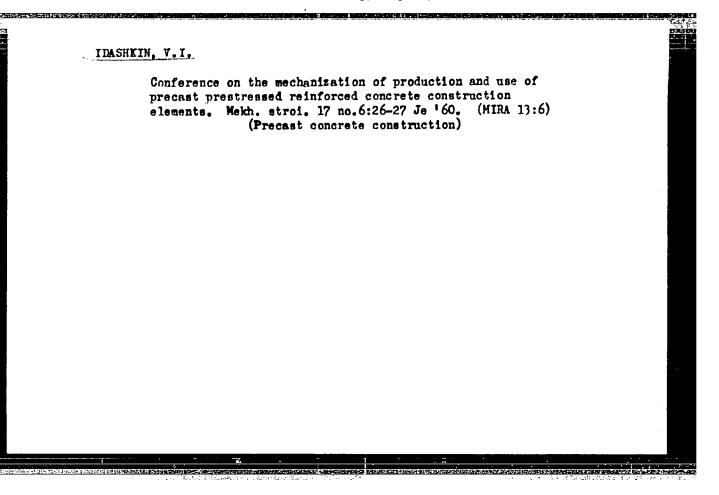
ZIMIN, P.A., kand.tekhn.nauk; IDASHKIN, V.I., insh.

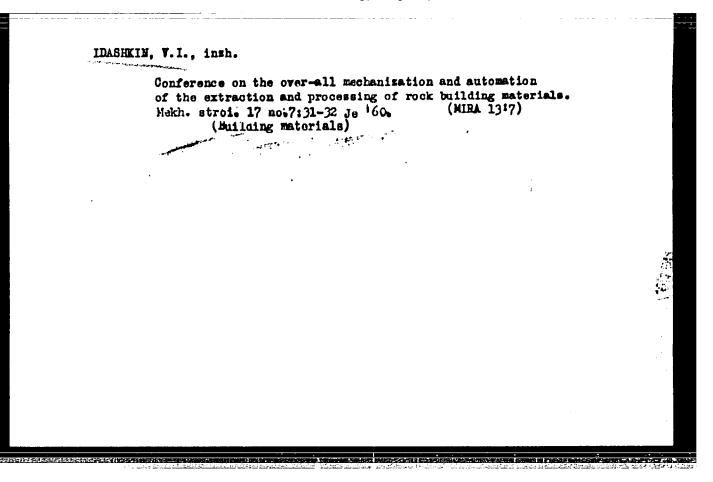
Gonference on the improvement of construction elements and the performance of building and assembling cranes. Makh.strot.

17 no.3:26-28 Mr '60. (MIRA 13:6)

(Granes, derricks, etc.)

(Precast concrete construction)





IDASHKIN, V.I., insh.

Conference on over-all mechanization and automation of the extraction and processing of rock products. Biul. stroi.tekh. 17 no.7:42-43 Jl *60. (MIRA 13:7) (Building materials industry)

IDASHKIN, V.I., insh.

Conference on the mechanisation of production and use of prestressed reinforced concrete construction elements. Gidr. stroi. 30 no.7:62-63 Jl 160. (MIRA 13:7) (Precent concrete construction)

IDASHKIN, V.I., inzh.

Conference on over-all mechanization and automation of the production and preparation of nonmetallic construction materials. Gidr. stroi. 30 no.9:60 S *60. (MIRA 13:9)

(Building materials industry)

IDASHKIN, V.I., insh.

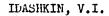
Conference on over-all mechanisation and automatisation of quarrying and processing natural wall stone. Mekh, stroi. 17 no.12:29-30 D '60.

(Quarries and quarrying)

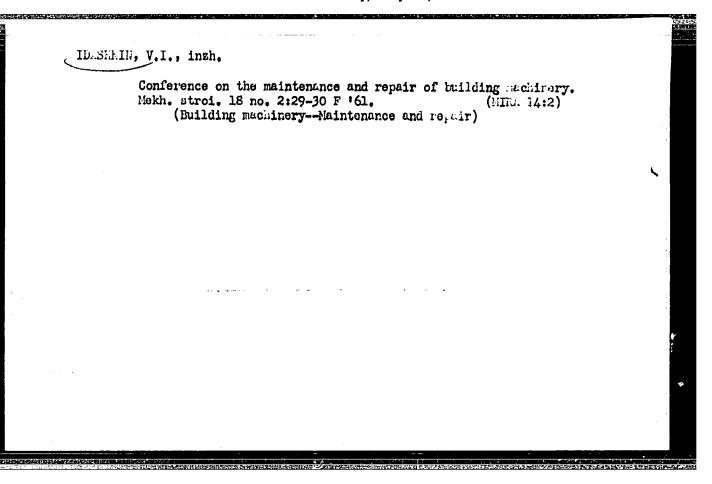
(Quarries and quarrying)

Congress on improvement of the design and operation of cranes used in construction and mounting. Gidr. 1 stroi. 30 no.5:62-63 My '60.

(Cranes, derricks, etc.-Congresses)



All-Union Conference on the Use of Welding in Building Structures. Avtom. svar. 14 no.10:94-96 0 '61. (MIRA 14:9) (Welding-Congresses)

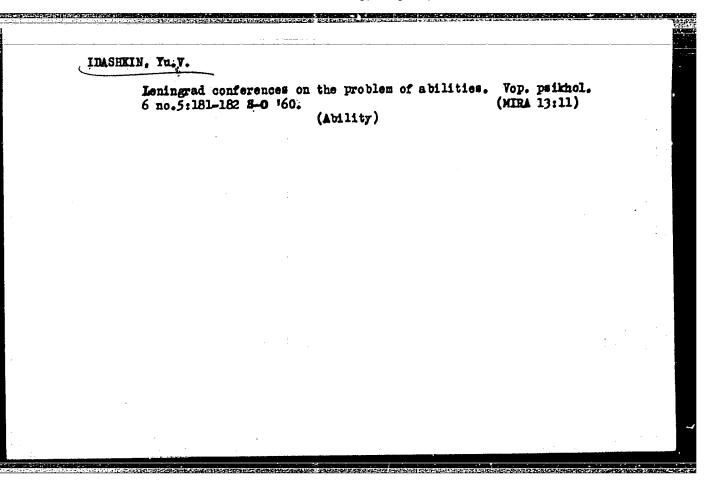


IDASHKIN, V.I., inzh. Conference on the use of ultrasonic waves in construction.
Gidr. stroi. 31 no.7:61-63 J1 '61. (MIRA 14:7)
(Ultrasonic waves—Industrial applications)

IDASHKIN, Yu.V.

Problem of involuntary recall. Vop.psikhol. 5 no.2:83-93 (MIRA 12:6)

1. Institut psikhologii Akademii pedagogicheskikh nauk RSFSR, Moskva.
(Reproduction (Psychology))



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C111/C333

AUTHORS:

Suvorova, V. V., Idashkin, Yu. V., Gadzhiyev, S. S.

TITLE:

An attempt at the psychological examination of the activity of operators (In the example of working at electrical panels

for remote control of electricity plants)

PERIODICAL: Referativnyy zhurnal, Matematika, no. 7, 1962, 81,

abstract 7V399. ("Vopr. psikhologii", 1961, no. 3, 47-60)

TEXT: Two types of signal equipment arrangements are analysed: 1) the existing arrangement is distinct there-in that the operator receives unordered bits of information on the work of the system being controlled, thus making repeated readings inevitable. The amount of information received and to be worked-out is very large in a critical situation and the selection of the signal with the most important information is made difficult; 2) the new arrangement has the characteristics that the signal sources are distributed according to their functional purposes; this concentrates the information which the operator receives, does away with repeated readings and permits the selection of the necessary signals to be made in the appropriate sequence. The reading speed and the supervision of the automatic system depend on the extent to which Card 1/2

<u>V</u>

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S/044/62/000/007/097/100 0111/0333

An attempt at the psychological ... C111/C555

the active selection of the signals is guaranteed, which, in turn, is decided through the arrangement of the control equipment and regulating devices.

Abstracter's note: Complete translation.



IDASHKIN, Yu.V. Some deviations in the development of the personality of the pupil and ways of overcoming them. Vop.psikhol. 7 no.1:35-42 Ja-F '61. (MIRA 14:3) 1. Institut psikhologii Akademii pedagogicheskikh nauk RSFSR, Moskva. (Child study)

CIA-RDP86-00513R00051832(

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BOGDANSKI, Kazimierz; IDASIAK, Ludmila

Gradient levels of the localization or ascorbigen and free ascorbic acid in the head of the Italian cabbage, (Brassica oleracea var. Sabanda L./Rocz nauk roin rosi 88 no.21437-440 '64.

1. Vitaminological Laboratory, Institute of the Pharmaceutical Industry, Warsaw, and Department of Technology of Nutriments, Technical University, Lodz.

IDBRIL', Z.Ya., inch.

Use of selenium rectifiers instead of counter-e.m.f. cells in d.c.
networks. Vest. sviasi 25 no.8:7-9 Ag '65.

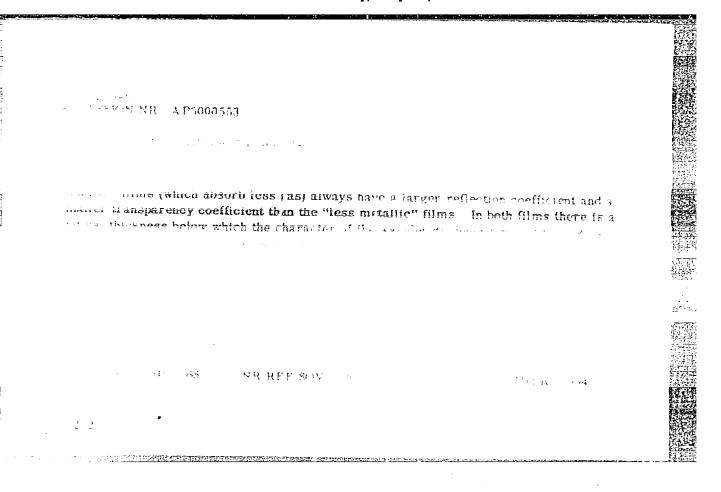
(MIRA 18:10)

1. Giprosvyaz'.

SERYAKOV, N.I.; SHEYKINA, T.S.; PETROV, V.V.; IDBRIL', Z.Ya.; SHESTERIKOV, V.G.; PRONIN, V.M.; LYUBSKIY, G.S.; ISAKOV, I.K.; VOLODARSKAYA, V.Ye., red.

[Automated power supply guarantee systems for teleconmunication apparatus] Avtomatizirovannye ustroistva garantirovannogo pitaniia apparatury sviazi; informatsionnyi sbornik. Moskva, Izd-vo "Sviaz'," 1964. 132 p. (MIRA 17:6)

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RCE: Optik	m i spektroskopiya, v. 17, no. 6, 1964. 92	3-926
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"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051832

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5/0051/63/015/001/0107/0112

AUTHOR: Idehak, Yo.F.

ACCESSION NR: AP3003418

TITLE: Effect of the syclimation conditions on the optical properties of thin chromium films

SOURCE: Optika i spektroskopiya, vol.15, no.1, 1963, 107-112

TOPIC TAGS: optical coating; thin film; Cr

ABSTRACT: Thin coatings of various kinds are finding increasing use in optical instruments; for such uses it is essential to know their physical properties and the best technology of deposition. Accordingly, in the present work the optical properties - the reflection R and transparency T - of chromium films on glass substrates were studied. Chromium is of particular interest since it is used both alone and as a base layer to provide good adhesion. The films were deposited by thermal sublimation under vacuum from three tungsten "baskets" arranged in a circle with the glass being rotated in the process. Initially the T versus thickness curve was close to the theoretical curve, but the points for R showed appreciable scatter. This was subsequently minimized by improvement of the deposition technique: installing a movable shield. Curves for R and T versus thickness are ad-

Card 1/2

CIA-RDP86-00513R000518320

APPROVED FOR RELEASE: Thursday, July 27, 2000

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ACCESSION NR: AP3003418

duced for films deposited without and with a shield at room temperature, films deposited on a heated substrate, and a heated and outgassed substrate. The T and R curves for the four cases are also juxtaposed in one figure for R and another for T. Use of a shield to cover the glass substrate during the initial stage of evaporation (the shield is withdrawn after the vacuum has improved owing to the getter action of the chromium vapor) results in more "metallic" coatings and more reproducible results. Orig.art.has 9 figures and 4 tables.

ASSOCIATION: Politekhnicheskiy institut, Wroclaw, Poland (Polytechnical Institute)

SUBMITTED: 180ct62

DATE ACQ: 30Jul63

ENCL: 00

SUB CODE: PH

NO REF SOV: 003

OTHER: 001

Card 2/2

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051832

PO/2542/66/000/010/0037/0047 SOURCE CODE: ACC NRI AP6036292

AUTHOR: Idczak, Elzbieta (Doctor, Senior assistant)

ORG: Department of Physics, Wroclaw Polytechnic Institute (Politechnika Wroclawska,

Katedra Fizyki)

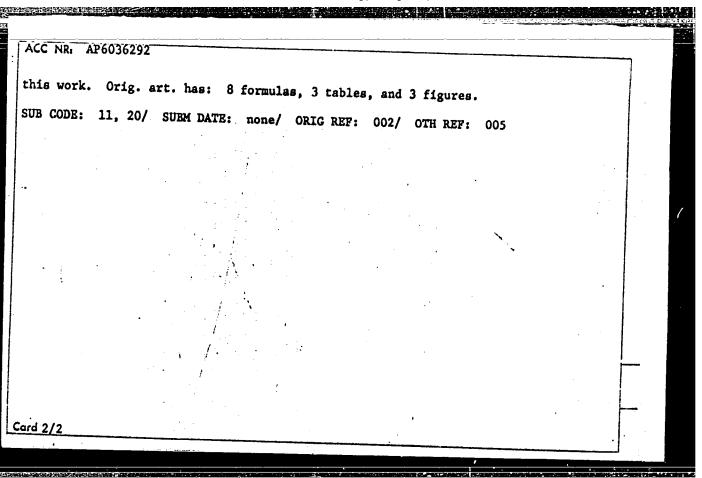
TITLE: Reflection coefficients of double metal layers

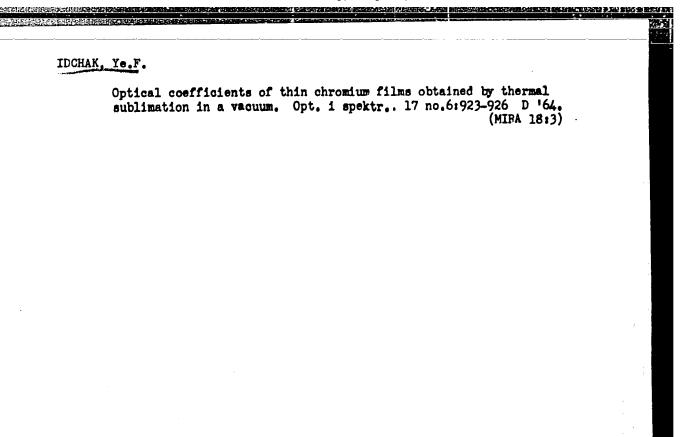
SOURCE: Breslau. Politechnika. Zeszyty naukowe, no. 128, 1966. Fizyka, no. 10,

TOPIC TAGS: silver, chromium, perlection coefficient, metal film, optic property

ABSTRACT: Optical constants n and k, and the thickness do have been determined for single silver and chromium layers using Male's method and employing the experimental values for the optical coefficients for these films. The photometric thickness, do, for silver does not differ from the geometrical thickness, d, determined by the multiple interference method. In the case of chromium do always exceeds d. Reflection coefficients, R, of the double layers Cr-Ag and Ag-Cr have been calculated theoretically at 5000 and 10 000Å and compared with the experimental values for reflection coefficient P of those layers flection coefficient R_m of these layers. A correlation between R and R_m has been established, suggesting that the structures of silver and chromium films deposited on glass and on metal are similar. Thus, one may expect that the optical parameters of the multilayer system will be analogous to the ones calculated theoretically in

Card 1/2





IDCZAK, Elzbieta

Reflection, transmittence and absorbing property of thin chromium layers evaporated thermally in a vacuum. Zesz probl nauki Pol 25:134-141 '63.

1. Department of Physics, Technical University, Wroclaw.

L 39405-66 EWT(m)/EWP(t)/EWP(k)/ETI IJP(c) JD, 1997-199 J3 ACC NR: AT6003650 SOURCE CODE: PO/2542/65/000/008/0029/0037

AUTHOR: Idezak, Elzbieta (Master of Science, Senior Assistant in the Physics Dept.)

ORG: Breslau Polytechnical Institute (Politechnika Wroclawska)

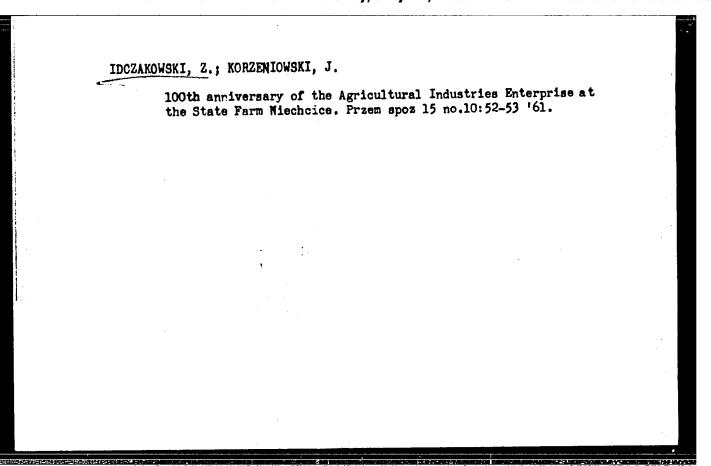
TITIE: Optic constants of thin chromium films obtained by evaporation in vacuum

SOURCE: Breslau. Politechnika. Zeszyty naukowe. Fizyka, no. 8, 1965, 29-37

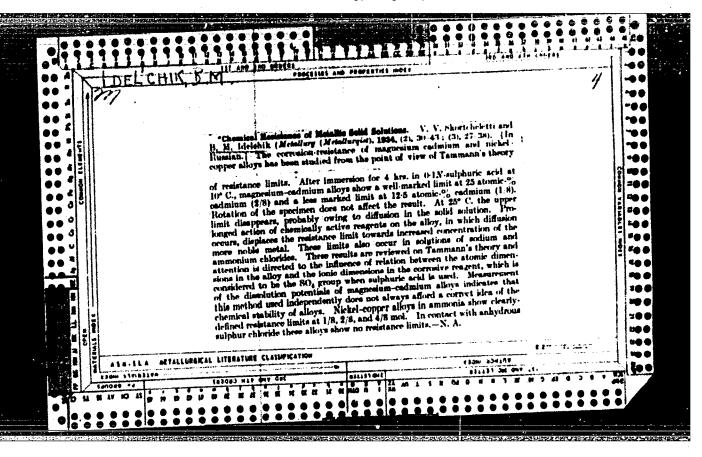
TOPIC TAGS: refractive index, absorption coefficient, optic constant, metal film. chromium

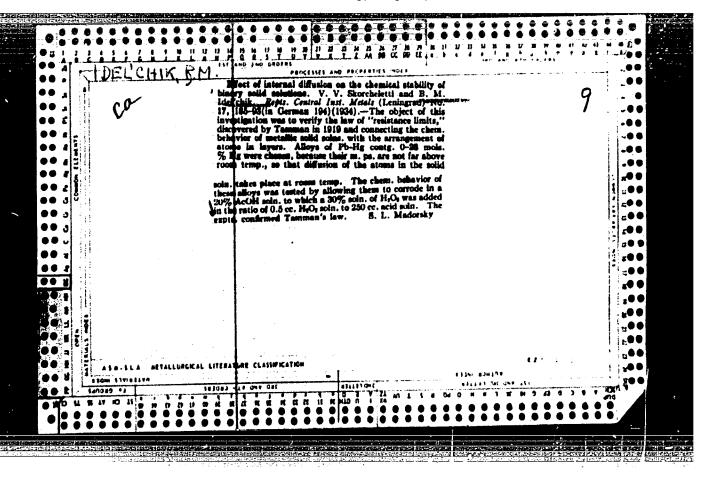
ABSTRACT: Measurements of the refractive index n and of the absorption index k of least metallic chromium films, varying in thickness from 27 to 1200 A°, were carried out in the 4000-10000 A° wavelength range. The measurement results show that 1) the variations of n and k with respect to Ain the wavelength range under consideration are very small and the thicker the films the smaller the variations, 2) the absorption index attains its maximum value at film thicknesses ranging from 180 to 250 A° and develops a constant value for thicknesses exceeding 600 A°, and 3) the refractive index at first decreases quite rapidly with increase in film thickness to about 200 A°, and then slowly attains a constant value which stabilizes at the starting thickness of about 500 A°. These measurements are based on previous data published by the author in another issue of this periodical (no. 6, 1963, 20). Orig. art. has: 2 figures and 2 tables.

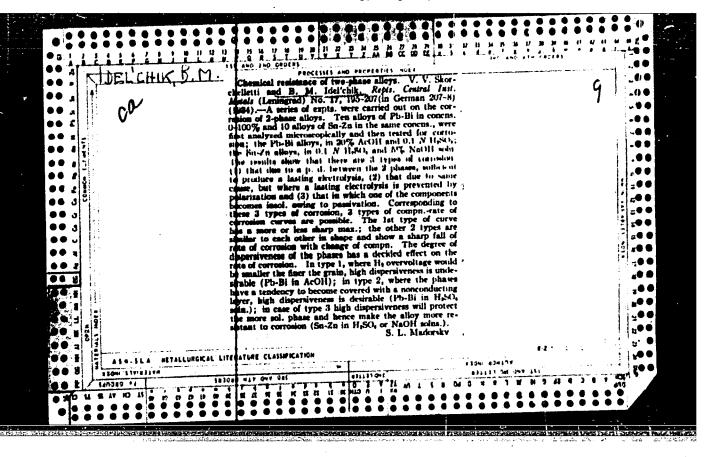
SUB CODE://,20/ SUBM DATE: none ORIG REF: 005/ OTH REF: 005/

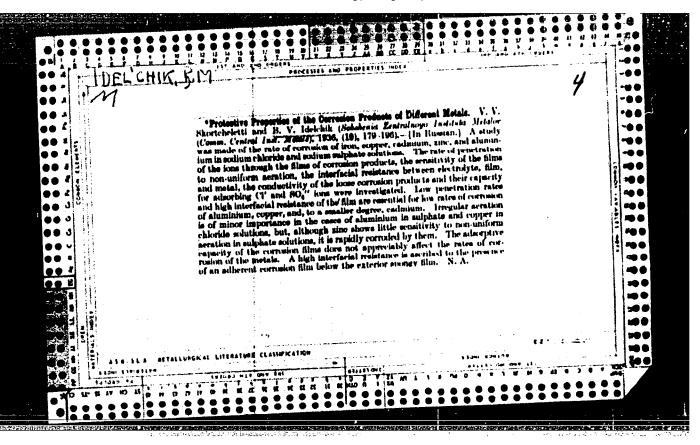


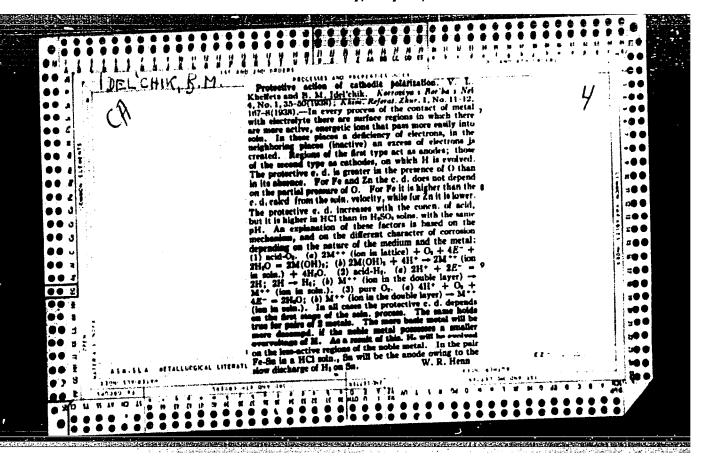
L 39127-66 JK ACC NR: AP6030352 SOURCE CODE: RU/0003/65/016/003/0166/0167 AUTHOR: Unterman, W. H.; Budai-Albu, Margareta; Idel, Ana; Rusan, M. ORG: Research Services, Antibiotics Factory, Iasi (Fabrica de Antibiotice, Serviciul TITIE: Observations concerning the G-penicillin recovered from residual waters SOURCE: Revista de chimie, v. 16, no. 3, 1965, 166-167 TOPIC TAGS: penicillin, chemical precipitation, recrystallization, paper chromatography, spectrophotometric analysis ABSTRACT: The authors note that the penicillin G recovered by means of N, N-dibenzylethylenediamine salt from the mother liquor after precipitation of the mother product must be recrystallized in order to obtain a time-stable product free of foreign penicillins and decomposition products. To analyze the purity of the samples, they suggest spectrophotometric measurements of the absorption at 322 millimicrons as well as at 263 and 280 millimicrons in order to detect degradation products, and paper chromatography to detect foreign penicillins. Orig. art. has: 1 figure and 1 table. [Based on authors! Eng. abst.] [JPRS] SUB CODE: 07 / SUBM DATE: none / ORIG REF: 001 / OTH REF: 003 Card 1/1

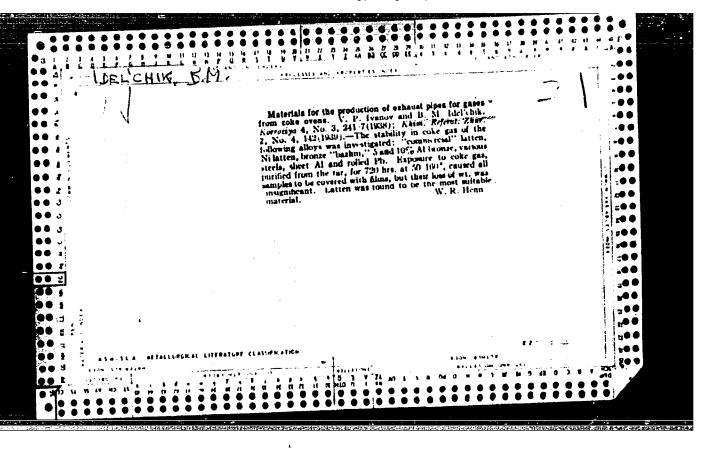












SOV/137-58-9-19999

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 9, p 272 (USSR)

AUTHOR:

Idel'chik, B.M.

TITLE:

1Kh18N9T Steel Used Instead of 2Kh13 Steel as Blade Material for Rotors Operating in a Producer-gas Atmosphere (Ispol'-zovaniye v kachestve lopatochnogo materiala na rotorakh, rabotayushchikh v atmosfere poluvodyanykh gazov, stali

1Kh18N9T vzamen stali 2Kh13)

PERIODICAL:

Tr. Nevsk. mashinostroit. z-da, 1957, Nr 2, pp 77-78

ABSTRACT:

Bibliographic entry

1. Steel--Effectiveness 2. Rotor blades--Materials

Card 1/1

AUTHORS:

Skorchelletti, V. V., Idel'chik, B. M. SOV/163-58-3-48/49

TITLE:

On the Corrosion Cracking of Soft Steels (O korrozionnom

rastreskivanii myagkoy stali)

PERIODICAL:

Nauchnyye doklady vysshey shkoly. Metallurgiya, 1958, Er 3,

pp 279-284 (USSR)

ABSTRACT:

The influence of the polarization on the cracking rate of soft steels was investigated. At a tension of 29,1; 24,3 and 22 kg/mm² the anodic polarization increases in the beginning and then drops until the occurrence of the cracking. The cathodic polarization hampers the cracking process. The experiments carried out with anodic polarization demonstrate that the corrosion cracking not only causes an unequal corrosion of the metals but also a decrease of the strength of the metal. The decrease of the strength of the metal surface leads to an electrocapillary phenomenon. From the results obtained may be concluded that in classifying the stability of metals to corrosion cracking it is important to know whether the metal is in contact with another metal, and whether factors occur which cause a forced polarization of the metals. When such factors occur investigations of the effect of the anodic and cathodic polarization on the cor-

Card 1/2

On the Corrosion Cracking of Soft Steels

SOV/163-58-3-48/49

rosion rate are necessary.

There are 3 figures and 10 references, 6 of which are Soviet.

ASSOCIATION:

Leningradskiy politekhnicheskiy institut (Leningrad Poly-

technical Institute)

SUBMITTED:

October 13, 1957

Card 2/2

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051832

IDEL'CHIK, B.M., insh.; CHIKUROYA, A.A., insh.

Preservation measures and protective and decorative coatings for parts and assemblies of turbines and compressors going to tropical countries. Energomashinostroenie 4 no. 6:45 Je '58.

(Protective coatings)
(Mgchinery--Painting)

38707

s/598/62/000/007/039/040 D217/D307

18.1285

AUTHORS:

Belan, N. I., Idel'chik, B. M., Borisova, M. S. and

Chikurova, A. A.

TITLE:

Investigating titanium alloy ATG (ATG) for its suitability as material for working wheels of supercharges

operating in aggressive media

SOURCE:

Akademiya nauk SSSR. Institut metallurgii. Titan i yego splavy. no. 7, Moscow, 1962. Metallokhimiya i novyye

splavy, 288-293

TEXT: Forgings of the alloy AT6, containing 5.8 wt-% Al and 1.1% Cr + Fe + Si + B, were studied. The mechanical properties of the as-received material were tested on probes from the surface and from the central portion of the forging. In order to choose the optimum heat treatment of manufactured components and to elucidate Xthe influence of annealing on the change in mechanical properties of the alloy, two heat treatment procedures were tried out. One of them, recommended by the Institute of Metallurgy AS USSR, con-

Card 1/3

CIA-RDP86-00513R00051832(APPROVED FOR RELEASE: Thursday, July 27, 2000

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Investigating titanium alloy ...

sists in heating to 850°C, soaking at that temperature for 1 hour and cooling in air. The other consisted in heating to 840°C, soaking at that temperature for 1 hour and furnace-cooling to 600°C, followed by cooling in air. The alloy was also tested for its corrosion resistance. It was found that the alloy in the forged condition possesses a high proof stress, both at the surface and in the center of the forgings, high toughness and a satisfactory plasticity. Heat treatment of the alloy at 840°C with subsequent air cooling increases the impact resistance somewhat, without affecting the original strength and plasticity. Furnace-cooling from 840°C to 600°C leads to a slight reduction in percentage elongation. The alloy did not exhibit any tendency to stress corrosion cracking during testing with application of a tensile stress of 70 kg/mm² for 750 hours at room temperature in water saturated with H₂S. Also, the general corrosion resistance of the alloy in water saturated with H₂S was found to be high. On bringing the alloy in contact with the steel 1×1212H9T (1Kh18N9T) with an area ratio of 1:1, the corrosion resistance of the steel in H₂S-saturated water de-Card 2/3

Investigating titanium alloy ...

S/598/62/000/007/039/040 D217/D307

creased somewhat, but still remained at a high level. Under conditions of short-term testing (700 hours) in hydrogen at 100°C and a pressure of 60 atm, no tendency to hydrogen embrittlement was observed. There are 4 figures and 3 tables.

X

Card 3/3

GC-0-1

8/2598/63/000/010/0322/0331

AUTHOR: Belan, N. I.; Borisova, M. S.; Idel'chik, B. M.; Chikurova, A. A.

TITLE: Titunium alloys AT-3, AT-4, AT-6 and VT-3-1 as materials for compressor discs operating in various aggressive media

SOURCE: AN SSSR. Institut metallurgii. Titan i yego splavy*, no. 10, 1963. Issledovaniya titanovy*kh splavov, 322-331

TOPIC TAGS: titanium alloy, titanium alloy property, elevated temperature property, subzero temperature property, AT-3 titanium alloy, AT-4 titanium alloy, AT-6 titanium alloy, VT-3-1 titanium alloy, titanium alloy corrosion, titanium alloy stress corrosion, titanium aluminum chromium alloy, silicon containing alloy, iron containing alloy, boron containing alloy, titanium alloy corrosium resistance

ABSTRACT: The possibility of using titanium-base alloys for compressor runner discs operating in air and aggressive media has been investigated. As shown in Table 1 of the Enclosure test specimens of alloys AT-3, AT-4, AT-6, and BT-3-1 have been used, and their mechanical properties, thermal stability, compatibility with aggressive

Card 1/4

media, and galvanic action with steels have been investigated under various conditions. It has been found that: (1) Optimum annealing has practically no influence on the original mechanical properties of alloys AT-3, AT-4, and AT-6. (2) Short-time tensile strength of alloys AT-3, AT-4, AT-6, and BT-3-1 decreases with the increase of temperature up to 400 C and ductility increases. (3) Impact resistance decreases considerably at low temperatures, particularly at -80 C for AT-4, at -40 C for AT-6, and below -80 C for BT-3-1; however, even at the lowest test temperature of -180 C, the lowest impact resistance is 2-3kg m. (4) Heating of alloys AT-3, AT-4, AT-6, and BT-3-1 for 3700 hours at 200 C has no mechanical properties. Heating of alloys AT-4, AT-6, and BT-3-1 for 9500 hours at 400 C considerably reduces plasticity and impact strength, but increases hardness and tensile strength. (5) At room temperature alloys AT-3, AT-4, and BT-3-1 have high corrosion resistance to a saturated aqueous solution of hydrogen sulfide, to 5% hydrochloric acid solution, and to an 'industrial' atmosphere containing 0.1% SO2 and 0.5% CO2 at 100% relative humidity. Coupling of the alloys with steels of the type IX 18H9T and X 17H2 in saturated aqueous solution of hydrogen sulfide and with steels 40X and 1X 18H9T in an 'industrial" atmosphere barely reduces the corrosion resistance of the steels. (6) At room temperature the corrosion resistance of alloys AT-3,

Card 2/4

AT-4, and BT-3-1 to 10% hydrochloric acid solution is satisfactory. (7) At room temperature alloys AT-3, AT-4, and BT-3-1 have not shown a tendency to corrosion cracking under simultaneous action of tensile stress (80% of yield) and an aggressive medium: (a) during 500 hours in saturated aqueous solution of hydrogen sulfide; (b) during 1200 hours in 5% hydrochloric acid solution. (8) At room temperature alloys AT-4 and BT-3-1 have not shown a tendence to corrosion cracking during 1200 hours in 30% nitric acid solution under simultaneous action of tensile stress (60% of yield). (9) At room temperature alloys AT-3, AT-4, and BT-3-1 have indicated a tendency to corrosion cracking in 10% hydrochloric acid solution under simultaneous action of tensile stress (80% of yield). (10) Alloys AT-3, AT-4, and BT-3-1 have shown a tendency to absorb atomic hydrogen at conditions of electrolysis at 45C; simultaneous action of tensile stress (60% of yield) during the process of hydrogen absorption leads to the brittle fracture of specimens after a relatively short time (20-50 hours). Orig art. has: 10 tables.

ASSOCIATION: Institut Metallurgii AN SSSR (Metallurgical Institute AN SSSR)

SUBMITTED: 00

DATE ACQ: 27Dec63

ENCL: 01

SUB CODE: MM

NO REF 80V: 000

OTHER 000

Card 3/4

ENCLOSURE: 01

Table 1 — Chemical composition, dimensions and number of tested forging billets of titanium alloys AT-3, AT-4, AT-6, and BT-3-1.

Alloy	Composition, % (*)							Dimensions,		Number of
	Al	Cr	Мо	Si	Fe	В	ΣCr, S, Fe		height	tested billets
AT-3	2.8	0.30	-	0.23	0.51	0, 01	1.0	430	110	1
AT-4	4.69	0.80	-	0.34	0.26	0.01	1.4	430	95	2
	1	0.71	-	0.64	0,29	0.01	1.6	430	95	1
BT-3-1	5.41	1.9	2.34	0.06	0. 16	-	-	480	120	2

* Note: The rest is titanium

Card 4/4

APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R000518320

5/2563/63/000/223/0131/0140

AUTHOR: Skorchelletti, V. V.; Idel'chik, B. M.

TITLE: Corrosion cracking of soft steel

SOURCE: Leningrad. Politekhnicheskiy institut. Trudy*, no. 223, 1963. Metallurgiya tsvetny*kh metallov (Metallurgy of nonferrous metals), 131-140

TOPIC TAGS: soft steel, soft steel corrosion, soft steel cracking, steel corrosion cracking, corrosion, cracking, polarization, anode polarization, cathode polarization

ABSTRACT: On the basis of a detailed review of the literature on the relationship between the hardness and crack-resistance of metals and their electrochemical polarization, which can lead to unequal corrosion and the development of stress concentrators, the authors investigated the influence of the electrode potential of soft alloy steel on the cracking rate in a hot, saturated solution of ammonium nitrate. It was found that the cracking rate decreased with a decrease in tensile stress (see Fig. 1 of the Enclosure). Anode polarization at stresses of 29.1, 24.3, and 19.1 kg/mm² first increased and then decreased the time prior to cracking, while cathode polarization uniformly delayed the appearance of cracks. Tests with anode polarization showed that corrosion cracking of steel is not caused simply by unequal corrosion and the development of stress concentrators, but by the

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electrocapillary lowering of the surface strength as the result of spontaneous or forced polarization. The investigation also showed that whether or not the tested metal is in contact with other metals, should be taken into consideration, i.e. whether or not there are inherent factors causing polarization of the given metal. Orig. art. has: 10 figures and 1 table.

ASSOCIATION: Leningradskiy politekhnicheskiy institut (Leningrad Polytechnic Institute)

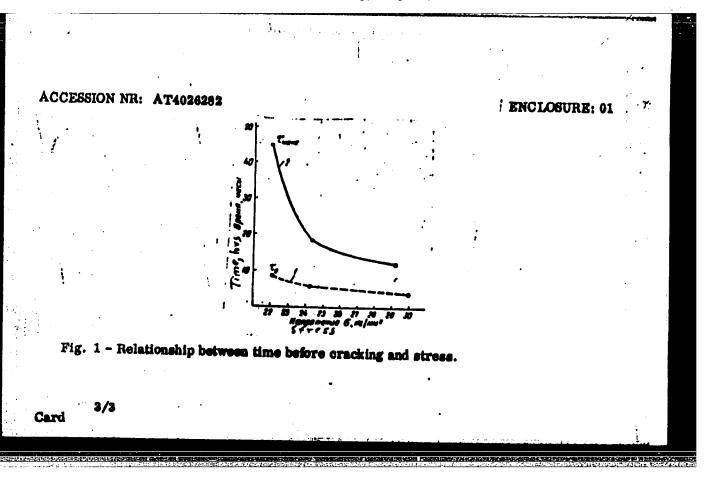
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ENCL: 01

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OTHER: 001

2/3 Card



L 02422-67 EWT(m)/T/E F(w)/EWP(t)/ETI IJP(c) WB/JD

ACC NR: AP6031402 SOURCE CODE: UR/O114/66/000/009/0037/0040

AUTHOR: Idel'chik, B. M. (Engineer); Belan, N. I. (Engineer)

ORG: none

TITLE: Behavior of titanium alloys applied to the working conditions of compressors

SOURCE: Energomashinostroyeniye, no. 9, 1966, 37-40

TOPIC TAGS: aluminum containing alloy, chromium containing alloy, corrosion resistant alloy, centrifugal compressor, titanium alloy, tensile strength, elongation/AT-3 titanium alloy, AT-4 titanium alloy, AT-6 titanium alloy, BT3-1 titanium alloy

ABSTRACT: In a search for compressors materials capable of working in aggressive gas atmospheres, AT-3 (2.8% Al, 0.3% Cr, 0.23% Si, 0.51% Fe, 0.01% B), AT-4 (4.69% Al, 0.80% Cr, 0.34% Si, 0.26% Fe, 0.01% B), AT-6 (5.52% Al, 0.71% Cr, 0.64% Si. 0.29% Fe, 0.01% B) and BT3-1 (5.41% Al, 1.9% Cr, 2.34% Mo, 0.06% Si, 0.16% Fe) titanium alloys were investigated. After annealing (AT-3 at 800C, AT-4 at 850C, AT-6 at 900C, and BT3-1 at 870C with 7 hr holding and air cooling) these alloys had a room-temperature tensile strength (δ_0) of 69.5, 86.7, 92.4, and 94.8 kg/mm², an elongation (δ) of 17.5, 15.6, 9.2, and 12.4% and a notch toughness (α_k) of 8.9, 5.5, 5.5, and 8.4 kgm/cm², respectively. At 400C, the tensile strength decreased to 46.2, 56.3, 71.8, and 61.0, respectively, but the elongation did not change. At -180C the notch toughness for AT-4, AT-6 and BT3-1 alloys was 2.0, 2.2, and 3.3 kgm/cm², respectively. After holding at 200C for 3700 hr the AT-3, AT-4, Card 1/2

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